2.6. ArterialCalcClass

The ArterialCalcClass handles the calculation on the input parameters necessary to find the appropriate AADT for given LOS ranges. Information regarding the public functions are listed. All of the parameters for an arterial segment must be set before the functions can be called. A list of the ArterialCalcClass's public parameters is given bellow.

```
Public FFSID As Integer
Public K As Single
Public D As Single
Public Plt As Single
Public StreetClassID As Integer
Public ArivalTypeID As Integer
Public CycleLength As Single
Public GCRatio As Single
Public Nolan's As Integer
Public Length As Single
Public SignalsPerMile As Single
Public PHF As Single
Public NumSegments As Integer
```

2.6.1. FindAADT

The function declaration for FindAADT is shown. This function determines the AADT based on the Sa (average travel speed through all segments) given and the public parameters already set.

```
Public Function FindAADT(ByVal nSa As Single) As Integer
```

2.6.2. FindSa

The function declaration for FindSa is shown. This function returns the Sa associated with the given AADT for the public parameters already set.

```
Public Function FindSa(ByVal AADT As Integer) As Single
```

3. Input and Output Data

The ProjectCalcClass is designed to read in a data file with a standard format. The data file format is shown in Figure C2. The output file created by the ProjectCalcClass has this identical format. The file format used by the ProjectCalcClass is the same as the file format output by the FacilityAnalyzer.dll export functionality.